



DEPARTMENT OF THE ARMY  
OFFICE OF THE SECRETARY OF THE ARMY  
107 ARMY PENTAGON  
WASHINGTON DC 20310-0107



Office, Director of Information  
Systems for Command, Control,  
Communications and Computers

SAIS-IOM

26 FEB 2002

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Army Plan For Narrowband Systems Operating in the Land Mobile Radio (LMR) Service

1. This plan applies management of the Army Land Mobile Radio (LMR) infrastructure at the Enterprise Level.
2. Army LMR was a local solution to specific requirements. The nature of the situation has changed and Army LMR is now an integral part of the Army Infostructure. The original requirement to provide a wireless voice communications capability for installation military police, fire departments and medical response units has matured into a requirement to support an installation Force Protection and Public Safety network, with a future integrated voice and data transport capability. Our installations have created interdependencies with the surrounding state and local governments and likewise the installation LMR network must interconnect with state and local counterpart mobile radio networks. Recent events have broadened that interdependency from the traditional public safety role to that of an integrated capability to support Homeland Security.
3. This policy applies to Army LMR in support of installation management and sustaining base support for Homeland Security within the United States and its Possessions (US&P). Army LMR are non-tactical systems and are not intended to support combat missions or deploy with the combat force. Army LMR will converge or enable intercommunications with the Joint Tactical Radio System (JTRS) when both support the common Software Architecture and Association of Public Safety Communications Officials' (APCO) and the Telecommunications Industry Association's (NTIA) "Project 25" standards.
4. Enclosed is the Army Supplement to DOD Land Mobile Radio policy, Plan for Army Land Mobile Radio (LMR) Narrowbanding, and Concept for Support to National Homeland Security.

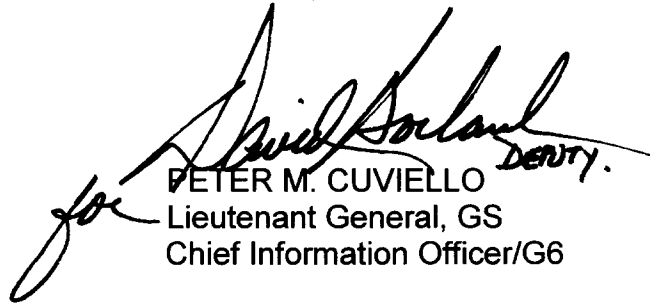


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5. The points of contact for this memorandum are: Primary Action Officer: Mr. Charles Jerzak, Army LMR Proponent, DSN 225-5932 or COM (703) 695-5932, email: [charles.jerzak@us.army.mil](mailto:charles.jerzak@us.army.mil); and, Spectrum Management issues: Mr. Joe C. Capps, Spectrum Manager at DSN 221-3810 or COM (703) 325-3810, email: [joe.capps@us.army.mil](mailto:joe.capps@us.army.mil).

Encl



PETER M. CUVIELLO  
Lieutenant General, GS  
Chief Information Officer/G6

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## ARMY SUPPLEMENT TO DOD POLICY FOR LAND MOBILE RADIO (LMR) SYSTEMS

### 1. REFERENCES:

- a. NTIA Manual of Regulations and Procedures for Federal Radio Frequency Management, January 2000, with May/Sept 2000 revisions.
- b. Joint Tactical Radio System (JTRS) Operational Requirements Document (ORD) Revision 2.2, 30 January 2001.
- c. National Security Telecommunications and Information Systems Security Policy (NSTISSP) No. 11, Subject: National Policy Governing the Acquisition of Information Assurance (IA) and IA-enabled Information Technology (IT) Products
- d. Department of Defense Chief Information Officer Guidance and Policy memorandum No. 6-8510 "Department of Defense Global Information Grid Information Assurance, dated 16 June 2000
- e. DOD 5000.2-R, June 2001, Electromagnetic Environmental Effect (E3) and spectrum supportability, Page 104, Chapter 6, Paragraph C6.5.1
- f. Memorandum for Secretaries of the Military Departments, Chairman of the Joint Chiefs of Staff, Assistant Secretary of Defense, Special Operations and Low-Intensity Conflict Directors of the Defense Agencies, Subject: Guidance and Policy for Land Mobile Radio (LMR) Systems, dated 1 August 2001.
- g. AR 5-12, Army Management of the Electromagnetic Spectrum
- h. AR 25-1, Army Information Management, Chapter 6, Sub-Chapter 6.3, Radio system Support, 6.3ac.

2. PURPOSE: To promulgate the Army policy regarding procurement of Land Mobile Radios (LMRs). The objectives of this policy are to: (1) ensure timely, cost effective, and coordinated compliance with the narrowbanding mandates of reference (a); (2) promote interoperability among LMRs where required; (3) address security requirements; (4) minimize Department-wide life cycle replacement cost of LMRs and (5) position the Army to respond to emerging missions in Homeland Security and region disaster support.

### 3. DEFINITIONS:

a. Land Mobile Radio Systems. Antennas, consoles, switches, repeaters, handheld radios, vehicular mounted radios, and associated components of non-tactical radio frequency systems that operate in the bands 138-150.8 MHz, 162-174 MHz, and 406.1-420 MHz.

b. Narrowband Operation. Equipment in the frequency bands below must operate in a 12.5 KHz bandwidth channel or less as defined by the NTIA in reference (a) and DoD in reference (f) to be accomplished not later than the prescribed dates per band.

(1) 162-174MHz – 1 JAN 2005

(2) 138-150.8MHz – 1 JAN 2008

(3) 406.1-420MHz – 1 JAN 2008

(4) 380-399.9MHz (DoD Only) – effective immediately for all new equipments or systems, per reference (f).

4. SCOPE: This policy applies to non-tactical LMR equipments and systems in the United States and its Possessions (US&P). This policy applies to all Active Army, Army National Guard, and US Army Reserve units and/or Agencies currently operating, planning equipment acquisition, system improvement, expansion, or life cycle replacement of a Commercial Off-The-Shelf, Land Mobile Radio (LMR) system that operates in the fixed and mobile bands as described herein.

a. This plan covers non-tactical fixed base, mobile and transportable radios including Trunked Land Mobile Radio Systems (TLRMS).

b. The NTIA and DoD narrowbanding mandate applies to all spectrum-dependent, non-tactical equipment (e.g., alarms, hydrology, target scoring, paging) operating in the 138-150.8 MHz, 162-174 MHz, 380-399.9 MHz (DoD only), and 406.1 – 420 MHz bands.

#### 5. POLICY:

a. Centralized Oversight of Acquisition. HQDA will maintain oversight of the funding and acquisition of LMR. Centralized funding will be provided to meet NTIA narrowbanding mandates as well as the Army objectives for enterprise solutions.

b. Spectrum Supportability. Prior to committing funds for the acquisition of LMR systems, users must ensure that the system is spectrum supportable by coordinating with the Army Spectrum Management Office IAW reference (g). The following is a brief summary of the steps required to assure spectrum supportability and to attain access to radio frequency spectrum:

- 1) Submit a request for spectrum certification of equipment to the Army Spectrum Management Office using a DD Form 1494, Application for Equipment Frequency Allocation.
- 2) Obtain, through the Army Spectrum Management Office, a Trunking Certification from the Interdepartment Radio Advisory Committee (IRAC).
- 3) Obtained adequate radio frequency assignments for the geographical area to support equipment operation or deployment. Frequency assignment request should be submitted to the appropriate Area Frequency Coordinator identified in Appendix B of AR 5-12. The Frequency Assignment Subcommittee (FAS) of the IRAC must approve frequency assignments.

c. Coordination of Migration to Narrowband Frequency Assignments. Installations will coordinate individual migrations of frequency assignments with the ASMO to insure coordination with DoD Services/activities and, with other Federal departments and agencies under current NTIA policy and procedures, to minimize mutual interference and retain needed interoperability.

d. Waivers. Request for waiver to spectrum policies must be submitted through the Army Spectrum Management Office to the ASD (C3I) via the MCEB Frequency Panel.

## CONCEPT FOR SUPPORT TO NATIONAL HOMELAND SECURITY.

1. The Army Land Mobile Radio (LMR) initiative has several objectives.
  - a. The first and primary objective is to replace the existing infrastructure in order to comply with the NTIA narrowbanding requirements. This must be accomplished in a manner that enables the Army to continue to perform the basic Force Protection and Public Safety missions, as well as the administrative functions that rely on mobile communications. The Army LMR must insure that the investments not only meet current requirements but also provide flexibility to adjust for changes in missions and technology. The chosen solution should provide the means to employ commercial standards to increase interoperability, competition and flexibility.
  - b. The secondary objective is to provide the ability for Army LMR to interconnect with activities beyond the boundary of the installation, such as other Army and DOD installations supporting force protecting or incident consequence management. The capability must provide communications between installations that are in close proximity and have supporting agreements, using regional networks. The Army LMR must also provide the means for installations to communicate and work cooperatively with other Federal, Defense, State and local Force Protection and Public Safety activities nearby or in cooperative regional associations.
2. In addition to the historic Force Protection and Public Safety missions, a new mission is evolving – Homeland Security. As Army LMR pursues its primary objective, the planning for this new mission is just beginning. In its most basic form, Army LMR will provide the base for interconnection with like capabilities operated by other Federal, Defense, State and local activities that are also preparing for participation in the National Homeland Security mission.
3. The current Army LMR has been planned using the most basic design with the intent to add to or modify the infrastructure to accomplish new missions. An effort is needed to assess the current and planned capabilities of the Army as well as those of the other Federal, Defense, State and local activities to identify where the Army can contribute to the National mission and assist in the development of the capabilities of the other agencies and the total cooperative effort.
4. The following will be needed in the first phase of the effort:
  - a. Catalog and as appropriate, describe the other agencies, their capabilities and probable role in the National Homeland Security mission.
  - b. Catalog and as appropriate, describe existing organizations and committees, which have a direct relationship to the employment of LMR in support of the National Homeland Security mission.
  - c. Provide proposals for actions that the Army should initiate to accomplish its envisioned Homeland Security mission and proposed actions for other agencies or organizations to further the development of the total LMR solution supporting the National Homeland Security mission.

## Army Land Mobile Radio Narrowbanding

[illegible]





DEPUTY SECRETARY OF DEFENSE  
1010 DEFENSE PENTAGON  
WASHINGTON, DC 20301-5010

October 2, 2001

MEMO TO: SECARMY, SECNAV, SECDEF, Under Secretaries of  
Defense, Assistant Secretaries of Defense, General Counsel  
FROM: Paul Wolfowitz  
SUBJECT: Homeland Security Executive Agent

Effective October 1, 2001, the Secretary of the Army was designated the  
interim DoD Executive Agent for Homeland Security. The OSD staff will fully  
support Secretary White in this effort.

CC: SD SMA  
SD TSA  
Exec Sec  
CJCS  
V.C.F.S.  
CJCS KRUG



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DEFINITION OF TERMS

06 Feb 2002